

BRUHAT BANGALORE MAHANAGARA PALIKE

Office Of The Executive Engineer
Electrical Division Dasarahalli Zone
Bruhat Bangalore Mahanagara Palike

Approved SCHEDULE - B
Name of the Work:- Upgradation of lighting of Bangalore Major roads current works

Sl. No.	Qty.	Description of Work	Unit	Rate in Rs.	Rupes in words
1	29	Supplying High pressure Sodium Vapour street light luminaire 250Watts suitable for use with high pressure Sodium Vapour lamp with integrated control gear & grey color power coated. The fitting shall be non corrosive pressure die cast aluminum housing with high purity anodized aluminum reflector with EPDM Gaskets suitable for Outer Dia of pole 40mm - 60mm. Cable Entry through a cable gland with toggle clips. IP65 Protection for both optical & Electrical Compartment. Bottom cover may be with Poly carbonate/tempered/ toughened glass. Luminaire efficiency should be >60% & ambient temperature > 35 deg C. High Intensity Discharge Electro Magnetic Ballast with Copper winding of Orthocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety & IEC 60923 - Performance. Winding Temperature for HID Ballast Two = 130 deg C & temperature rise $\gamma T = 70$ deg C. Luminaire shall be suitable to operate on 230/250 Volts finish including wiring, including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass.	Each	5000.0	Rupees Five Thousand Only
2	4	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch. The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 9Mt (5Mt Hb, 165.1mm dia 4.85mm thick x2M Hm, 139.7mm dia 4.50mm thick x 2M Ht, 114.3mm dia 3.65mm thick) as per IS 410 SP 32	Each	11000.0	Rupees Eleven Thousand Only

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3	5	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories. Single bracket 1.5 Mtr. Length	Each	1000.0	Rupees One Thousand Only
4	1800	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 3 X 25 + 1 X 25 + 1 X 16 SQ.MM	Per Mtr	145.0	Rupees One Hundred and Forty Five Only
5	1800	Stringing of 1.1kv LT Aerial Bunched Cable, BESCOM SR	Per Mtr	10.0	Rupees Ten Only
6	70	Suspension clamp assembly 25 to 95 sqmm bare messenger. Bescom SR of 2010-11, Page no 16 of 34, SI no 51.17.	Each	65.0	Rupees Sixty Five Only
7	20	Dead end clamp / Anchor clamp assembly 25 to 95 sqmm bare messenger, Bescom SR of 2010-11, Page no 16 of 34, SI no 51.16.	Each	25.0	Rupees Twenty Five Only
8	70	Universal Hook and Bolts and Nuts, Bescom SR of 2010-11, Page no 16 of 34, SI no. 51.15.	Each	10.0	Rupees Ten Only
9	70	Erection of Suspension Clamp - 25 to 95 sqmm bare messenger. Bescom SR of 2010-11, Page No 21 of 27, SI No 26.6.	Each	15.0	Rupees Fifteen Only
10	70	Erection of Anchor Clamp - 25 to 95 Sq. mm bare messenger. Bescom SR of 2010-11, Page No 21 of 27, SI no 26.7.	Each	15.0	Rupees Fifteen Only
11	100	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanized, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm	Per Mtr	125.0	Rupees One Hundred and Twenty Five Only
12	200	3.5 core 25 sqmm	Per Mtr	150.0	Rupees One Hundred and Fifty Only
13	100	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall / on pole as required. I. In existing trench/duct. sqmm to 16 sqmm	Per Mtr	10.0	Rupees Ten Only
14	200	b)25sqmm to 75 sqmm	Per Mtr	10.0	Rupees Ten Only
15	100	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As per Civil SR KSRB I-2, P-7).a) In soil (ordinary)	Per Mtr	90.0	Rupees Ninety Only

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16	8	Micro processor based electronic timer consisting of Display Unit(LCD), built in Real Time Clock (RTC) and keypad with option to operate relay/contactors in programmable mode (pre-defined ON/OFF time) or astronomical mode (based on sunset and sunrise depending on the latitude and longitude of the location of installation of Switch) or based on Intensity of natural light (lux level using IR sensor), built in software to select the mode of operation by the user	Each	7000.0	Rupees Seven Thousand Only
17	11	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps	Each	8000.0	Rupees Eight Thousand Only
18	30	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required. b)40-63Amp SPN, Group A	Each	300.0	Rupees Three Hundred Only
19	100	Open Conduit System: Supplying heavy gauge PVC conduit pipe, dia confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug in case of brick walls and cement plastering damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. c) 32mm dia 2.5mm thick	Per Mtr	30.0	Rupees Thirty Only
20	28	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multi and Copper conductor single core cable in open or concealed system of wiring. I Group A Materials. g) 16 sqmm	Per Mtr	15.0	Rupees Fifteen Only
21	250	Wiring for lighting / power circuit using one of pvc insulated 1100v grade stranded aluminum unsheathed wire single core cable in open or concealed system of wiring as per IS - 694 : 1990 4sq mm	Per Mtr	5.0	Rupees Five Only
22	24	Supplying and fixing of Procelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., complete. d) 100 Amps	Each	300.0	Rupees Three Hundred Only
23	25	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. c) 65mm	Per Mtr	300.0	Rupees Three Hundred Only
24	200000	Fabricating supplying and mounting MS box made out... SWG suitable for floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete. b) 16 swg	Sqcm	0.3	Rupees Zero Only Paise Thirty Only

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25	5	Supplying..... amps rated 3phase with neutral bus bar using requiemed capacity electrolytic aluminium strips covered with heat shrinkable couloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S. flat frame work in existing panel board. The bus bar shall gave suitable holes for termination of incoming and outgoing cables as per IS specification with necessary botls, nuts and washers etc., complete.b)250Amps 4X30X10mm Alluminium Strips	Per Mtr	200.0	Rupees Two Hundred Only
26	50	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm	Per Mtr	200.0	Rupees Two Hundred Only
27	10	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with thermal Magnetic/ Microprocessed release and earth fault as per IS-13947(Icu=Ics). Four Pole. 100Amps 25kA.	Each	4800.0	Rupees Four Thousand Eight Hundred Only
28	18	Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. II Copper Strip. B)25X3mm	Per Mtr	75.0	Rupees Seventy Five Only

I am prepared to take up the above work at - the rates quoted in the Schedule 'B'

Contractor Sign

Sri Lakshmi Varadaraja
Electrical Stores
Proprietor

EXECUTIVE ENGINEER (ELEC)
DASARAHLLI ZONE
BRUHAT BANGALORE MAHANAGARA PALIKE